

Bat radio telemetry with ham radio operators from 28 August through end September 2016

Bats will be equipped with special radio transmitters at three different locations in Germany. All transmitters work within a carrier frequency range of 150.000 through 150.200 MHz. This carrier frequency is freely available for scientific purposes. Radio amateurs in Germany, the Netherlands, Belgium, Luxemburg, Liechtenstein, the United Kingdom, France, Spain, Portugal, Austria, Switzerland, Italy, the Czech Republic, Slovenia, and Croatia are invited to participate in this project.

In this year, ten bats will be equipped with transmitters in the framework of the project "Funk-Fern-Telemetrie" at the following locations:

- In the national park "lower Oder river valley" - four bats of the Nathusius's pipistrelle species (transmitter IDs Oder 1 through 4)
- In the Elbe river valley near Prettin - four bats of the Nathusius's pipistrelle species (transmitter IDs Elbe 5 through 7)
- At the biosphere reserve karst landscape southern Harz mountains - three bats of the species Leisler's bat (transmitter IDs Harz 8 through 10)



Macht mit beim Monitoring Fledermauszug in Deutschland!
Take part in monitoring bat migration in Germany!

www.fledermauszug-deutschland.de

www.fledermaus-aksa.de
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Pipistrellus nathusii
Foto: © J. Horn

An audio file with the transmitted radio signal "S - pause - S - pause - S..." can be found at the link:

<http://www.dg1hvl.darc.de/fledermauszug-20126.html>



Nathusius's pipistrelle (*Pipistrellus nathusii*)

This species migrates within the territories of the United Kingdom, the Netherlands, Belgium, Luxemburg, France, Switzerland, Liechtenstein, Italy, Austria, the Czech Republic, Slovenia, and Croatia...(?)



Leisler's bat (*Nyctalus leisleri*)

This species migrates within the territories of Belgium (?), Luxemburg (?), France (?), Spain, Portugal (?), Morocco (?), Switzerland, Liechtenstein, Italy, Austria, Slovenia (?), Croatia (?) and Bosnia-Herzegovia (?) ... (?).



Nathusius's pipistrelle:

150.022 MHz (16 Oder 1), **150.036 MHz** (16 Oder 2), **150.050 MHz** (16 Oder 3), **150.097 MHz** (16 Oder 4)



Nathusius's pipistrelle:

150.111 MHz (16 Elbe 5), **150.123 MHz** (16 Elbe 6), **150.156 MHz** (16 Elbe 7)



Leisler's bat:

150.172 MHz (16 Harz 8), **150.187 MHz** (16 Harz 9), **150.199 MHz** (16 Harz 10)

Legend for maps:

- Red square: bats equipped with transmitter here
- Red dotted line: potential area of migration
- Triangle with edges in red dotted lines: main direction of migration

Dear ham radio operators, you can find technical details for transmitters and receivers at

<http://www.dg1hvl.darc.de/fledermauszug-20126.html>.

- Please report your radio sighting with date, time, direction of flight, flight altitude, and weather conditions
- Please contact neighboring stations and inform them about the bat crossing
- Usually the signal is only detectable for a short period of time since the animals reach a speed between 40 and 70 km/h
- Please take notes of the signal received and report immediately using the e-mail address: dg1hvl@darc.de

Thank you and good luck!
B. Ohlendorf & H.-J. Vogl / 10.08.2016